



MANUFACTURERS OF:
Industrial Oven, Furnaces, Cooling
Equipments, Scientific, Surgical, &
Laboratory Equipments

LAB-CARE
INSTRUMENTS & SERVICES

AUTO-CLAVE



Introduction: “LAB CARE MAKE” make Autoclaves are designed and fabricated for steam sterilization process to Kill micro-organism through the application of saturated steam under pressure to suit various I.S. standards application in the growing field of Medical, Agricultural Institution, Bio-Chemical Industrial, Research laboratories and

STD , SEMI & FULLY AUTOMATIC

Features: a) Steam Temp. 121.0°C at 15 psi.

Specification: As per BS 2646-5:1993. Autoclaves for sterilization in laboratories Methods of Test for function and performance.

The Energy from the water is transferred into high pressure steam inside the Stainless steel chamber up to 15-psi pressure or 121.0°C temperature. The Chamber (electrical) is fill with clean water for sterilization. This heat process generated chemical free steam for sterilization.

Temp Controller: Microprocessor based LCD/LED temp. controller (GMP model optional)

Pressure Controller: Mechanically operated pressure/steam release valve.

Pressure Gauge: Analog Dial type Pressure Gauge

Temperature Sensor: Standard coupling type PT 100 Sensor

Heat Exchanger: The electrical heat exchanger transfer latent heat to the clean fill water to generated steam under pressure.

Water Level control: Low water level cut off electronic circuit protects the electrical heat exchanger from low water level inside the chamber, this Cut's off the power supply to the heat exchanger.

Steam Out let : Steam generated from the unit is raised and exits thought the electrically operated steam Purging solenoid valve from the outlet (GMP model)

*N.B. : Due to continuous R&D model / specifications may change.
Picture shown with optional accessories.*



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Horizontal High Pressure Cylindrical Steam Sterilizer, Single door, electrically operated

Parameter:

- Operating pressure : 1.2 to 1.5 kg/cm²
- Operating temperature : 121 to 125°C
- Partial Vacuum : 10" hg through ejector
- Full Vacuum : 24" hg – through vacuum pump only- optional
- Hydro- Test : 2.6 kg/cm²

Features:

- Fully stainless steel, except stand, panel boiler cover & hinge
- In build steam generator.
- Digital temperature indicator cum controller with timer & alarm after completion of sterilization cycle.

Model	Size – Internal	Capacity / Drum	Power
LCC-04'A'	16" Dia. x 24" Depth	76 Litre / 2 Drum	9 k.w
LCC-04'B'	16" Dia. x 36" Depth	110 Litre / 3 Drum	9 k.w
LCC-04'C'	20" Dia. x 36" Depth	175 Litre / 3 Drum	9 k.w.
LCC-04'D'	20" Dia. x 48" Depth	230 Litre / 4 Drum	18 k.w.
Optional			
Watering type vacuum pump with S.S Condenser & Starter – 1/3 Hp			
Fully automatic cycle through microprocessor controller with printer for recording cycle			
Fully automatic cycle through P.L.C. with printer for recording cycle			
Additional Door			

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Vertical High Pressure Autoclaves - Triple wall with steam jacket

- Inner and outer chamber made of stainless steel.
- Outer chamber works as steam stock jacket.
- Built-in safety valve, pressure gauge, pressure release valve and water level indicator.
- Pressure adjustable from 5 psi to 20 psi
- Automatic pressure control switch.
- Working temperature 121 C to 127 Deg.Cent Adjustable by Disital Microprocessor base with Inbuilt Timer and Alarm for High Temperature shootup ,Water Level & End of Cycle alarm
- Stainless steel steam release valve.
- Water level indicating gauge glass with stainless steel guard.
- Electric / Electric / Eléctricoal control box fitted with switch, indicating lamp.
- Foot paddle lifting devices.
- Hydrotest pressure 2.5kgf/cm sq.g (35psi)
- Sterilizing time 25 to 30 minutes
- Sterilizing pressure 15 psi to 20 psi
- Optional :
 - Automatic low water cut off device.
 - Dial type analogue temperature gauge.
 - Radial locking system with paddle lifting device
 - Stainless steel basket
 - Pc Interface /Printer Interface with data logger
 - Chamber Validation Sensor at four location



Model	Size (CMS? Inches)	Approx. Capacity (Litres)
LC-03(A)	30 x 50? 12x20	35 Ltrs
LC-03(B)	40 x 60? 16x24	75 ltr.

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Vertical High Pressure Autoclaves – Single Lever Locking

- Inner and outer chamber made of stainless steel.
- Inner chamber works as steam stock jacket.
- Built-in safety valve, pressure gauge, pressure release valve and water level indicator.
- Pressure adjustable from 5 psi to 20 psi
- Automatic pressure control switch.
- Working temperature 121 C to 127 Deg.Cent Adjustable by Disital Microprocessor base with Inbuilt Timer and Allarm for High Temperature shootup ,Water Level & End of Cycle alarm
- Stainless steel steam release valve.
- Water level indicating gauge glass with stainless steel guard.
- Electric / Electric / Eléctricoa control box fitted with switch, indicating lamp.
- Foot paddle lifting devices.
- Hydrotest pressure 2.5kgf/cm sq.g (35psi)
- Sterilizing time 25 to 30 minutes
- Sterilizing pressure 15 psi to 20 psi
- Optional :
 - Automatic low water cut off device.
 - Dial type analogue temperature gauge.
 - Radial locking system with paddle lifting device
 - Stainless steel basket.
 - Pc Interface /Printer Interface with data logger
 - Chamber Validation Sensor at four location



Model	Size(Inches) Dia x Ht	Liter (Capacity)	Rating (KW)
LCSL-02 A	12"x20"	35	2.0
LCSL-02 B	14x22	53	3.0
LCSL-02 C	16x24	90	4.0
LCSL-02 D	18x24	95	4.0
LCSL-02 E	18x28	111	5.0



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Models	LC-02'a'	LC-02'b'	LC-02'c'	LC-02'd'	LC-02'e'	LC-02'f'	LC-02'g'
Capacity (Ltrs)	35	53	90	95	111	125	175
Inner Size (Inch)	Dia-12xHt-20	Dia-14xHt-22	Dia-16xHt-24	Dia-18xHt-24	Dia-18xHt-28	Dia-18xHt-30	Dia-22xHt-30
Inner Chamber	Stainless Steel 304 quality						
External	Stainless Steel 304 quality						
Working Pressure Range	15 to 20 PSI pressure /						
Controller	Mechanical spring loaded valve / μ based temp. Controller.						
Sensor	PT 100						
Accuracy	+/- 0.5 °C . (Std Model)						
Accuracy	+/-0.5 °C .(With Semi/Fully Automatic)						
Max. Ramp up time	45 min. upto 121. °C with load with respect to ambient. .						
Insulation	Air Bank 50 mm.						
Top Lid	With Dome Shape Die press Stainless Steel Plate.						
Validation Port	1/2" BSP Coupling provided on Lid						
(watts)	3000	3000	4000	4000	4500	5000	6000

Electric requirements AC 230 V & 50 Hz cycle.

Optional :-

1. Any other sizes or other temp . range available on request
2. μ p Profile Controller for cyclic applications (Ramp & Soak)
3. Microprocessor Base PID Temperature Controller with PC/Printer Interface available
4. Data Logger with window base PC software with 21cfr and without 21 CFR Software available
5. Temperatures High Shoot up alarm facility available
6. Digital Timer with battery backup available

OTHERS PRODUCTS

B.O.D INCUBATOR, BIO-SAFETY CABINET, COOLING CABINET,
CONTAT TEMP. WATER BATH DEEP-FREEZER, LF, STABILITY CH,
PROTEAN DIGESTERS, PLANT GROWTCH. SHAKER BATH,
SHAKER INCUBATOR, VACUUM OVEN, HOT AIR OVEN, HOT PLATE
TRAY DRYER, VISCODITY BATH, WATER BATH, LOW TEMP.
CIRCULATING BATH, PHOTO STABILTY CHAMBER

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1. Horizontal **Rectangular** Steam Sterilizer, Single Door, electrically operated.

Parameter:

Operating pressure : 1.2 to 1.5 kg/cm²
Operating temperature : 121 to 125°C
Partial Vacuum : 10" hg
Full Vacuum : 26" hg – through vacuum pump only
Hydro test : 2.6 kg

Features:

Fully stainless steel except stand, jacket, panel, door lock/shooting bolt, boiler cover & hinge
Hinge type Single Door
Digital temperature indicator cum controller cum timer & alarm
In built steam generator.
Model

Model	Size – Internal Width x Height x Depth	Capacity	Power
LCR-04'A'	450 mm x 450 mm x 900 mm	200 Litre	18 k.w
LCR-04'B'	600 mm x 600 mm x 1200 mm	450 Litre	18 k.w
LCR-04'C'	600 mm x 900 mm x 1500 mm	810 Litre	36 k.w
LCR-04'D'	900 mm x 900 mm x 1500 mm	1275 Litre	36 k.w
Optional			
S.S. loading carriage 1 no. & M.S. Transfer trolley – 2 nos.			
Watering type vacuum pump with S.S Condenser & Starter – 3 Hp			
Fully automatic cycle through microprocessor controller with printer for recording cycle			
Fully automatic cycle through P.L.C. with printer for recording cycle			